



WIRELESS E-911 SERVICES BOARD

May 9, 2001

10:00 a.m.

Department of Information Technology
Executive Conference Room, 3rd Floor
Richmond Plaza Building
110th South 7th Street
Richmond, Virginia 23219

Members Present:	Jerry Simonoff, Chairman	David Apperson
	James McDonnell, Vice Chairman	Edward Coglio
	Thomas Hanson	Ralph Jones
	Melvin Breeden	Chief Henry Stanley
	Captain John Furlough	Robert Woltz
	Terry Hall	

Members Absent: Sheriff Ron Oakes
Chief Julian Taliaferro
William Landside

Staff Present: Steve Marzolf, Coordinator
Mel Sheridan, Analyst
Brenda Bolton, Administrative Assistant

CALL TO ORDER

Jerry Simonoff, Chairman, called the meeting of the Wireless E-911 Services Board (hereafter referred to as the Board) to order at 10:00 a.m., Mr. Simonoff welcomed all in attendance.

ACTION AGENDA

A motion was made Mr. Hall and seconded Mr. Jones that the Board minutes of April 11, 2001 be approved as presented; passed 11-0-0.

Steve Marzolf gave a financial report on the status of the Wireless Fund (see attached).

OLD BUSINESS

FY02 Additional Submissions:

A motion was made by Mr. Hanson and seconded by Chief Stanley that the FY02 submission for Page County be approved as submitted; passed 11-0-0.

As per attached letter, a six-month extension was requested from Fauquier County regarding their Phase I implementation date. A motion was made by Mr. Apperson and seconded by Mr. Hall that Fauquier County's request for the extension be approved as submitted; passed 11-0-0.

The attached status update from Arlington County was reviewed, however, no action is required by the Board at this time.

CMRS Provider Presentations

Several CMRS providers made presentations to the Board. Their remarks were focused on

- 1) their company's current progress relative to wireless Phase I implementation in Virginia
- 2) their plans for wireless Phase II implementation.

The order of presentation and other information is contained on the following chart.

<u>Provider</u>	<u>Presenter</u>	<u>Action Items</u>	<u>Handouts?</u>
Alltel	Dave Apperson	None	yes
Sprint Wireless	Via Teleconference Call: Susan Sherwood and Gina Green	1. Update to Board by the next Board meeting on the status regarding Lucent switch delay. 2. Identify targeted jurisdictions and determine whether or not they will be affected by the Lucent switch issue. 3. All providers responsible to send email to Steve Marzolf with their procedures for CALEA compliance and their 2002 approved/requested PSAPs.	yes
Verizon Wireless	Ron Whinery	None	yes
Verizon LEC	Maureen Napolitano	1. Verizon is to verify that a huge bill will not be received from them regarding interconnection charges once agreements are made.	no

The following actions items from 4/11/01 Board meeting were reviewed and addressed:

<u>Provider</u>	<u>Presenter</u>	<u>Action Items</u>	<u>Action Taken</u>
AT&T Wireless	Peter White and Kathleen Kittrick	1. Provide Board with chronological listing of events concerning the negotiations for an interconnection agreement between AWS and Verizon (BA).	1. See attached
		2. Provide statement with respect to why AT&T Wireless appears to be the only CMRS with extended delay in completing interconnectivity agreements.	2. Mr. White believes that other carriers have not yet crossed that bridge or may have different business procedures.
		3. Inform Board with respect to whether AWS has advised the FCC of the interconnectivity agreement problems? If so, provide copy of the same.	3. A copy was drafted but never sent due to resolution of problems. As of 5/5/01, agreement was made.

Additional decisions:

A motion was made by Mr. Breeden and seconded by Mr. Hall that the Attorney General's office provide an opinion on whether the Board has the authority to question a wireless provider's Phase II implementation decision when the technology selected by a provider appears too costly; passed 11-0-0.

A motion was made by Mr. Hanson and seconded by Mr. Woltz that all providers should keep the Board updated with respect to their Phase I and II compliance on a monthly basis, both in writing and by attending the monthly Board meetings; passed 11-0-0.

A motion to adjourn was made by Mr. Apperson, seconded by Mr. Jones, passed 11-0-0.

Respectfully submitted,

Brenda A. Bolton
Administrative Assistant
Public Safety Communications
Department of Technology Planning

Approved by Board: _____
(date)

Department of Technology Planning
YTD Appropriations, Revenues, and Expenses
For the Period Ended: April 30, 2001
Fund 0928 -- Dedicated Special Revenue-Public Safety Communications

Program (Layout): DTP0928

		Org 102 Program 71201 Expenses	Org 102 Program 71202 Expenses	Org 102 Program 71203 Expenses	Total Fund 0928
Appropriations/Revenues:					
R09000	Appropriations-Original	-	-	-	5,512,357.00
90000	Total Appropriations	-	-	-	5,512,357.00
R05048	E-911 Receipts	-	-	-	38,735,402.45
R07108	Interest from Other Sources	-	-	-	41,940.25
96100	Revenues	-	-	-	38,777,342.70
Total Appropriations/Revenues					44,289,699.70
Expenses:					
E1100	Personal Services	112,356.33	-	-	112,356.33
E1200	Contractual Services	10,973.83	-	-	10,973.83
E1300	Supplies & Materials	6,951.11	-	-	6,951.11
E1400	Transfer Payments	94.00	3,211,670.31	821,711.04	4,033,475.35
E1500	Continuous Charges	5,864.41	-	-	5,864.41
E2200	Expendable Equipment	33,756.57	-	-	33,756.57
Total Expenses		169,996.25	3,211,670.31	821,711.04	4,203,377.60
Funds Remaining					40,086,322.10
Expenses by Month:					
July		-	-	-	-
August		-	-	-	-
September		-	-	-	-
October		12,765.45	-	-	12,765.45
November		22,685.17	-	-	22,685.17
December		9,539.69	-	207,106.32	216,646.01
January		26,604.64	-	6,011.60	32,616.24
February		21,797.45	1,694,120.76	79,877.00	1,795,795.21
March		24,031.80	(2,934.50)	181,185.79	202,283.09
April		52,572.05	1,520,484.05	347,530.33	1,920,586.43
May		-	-	-	-
June		-	-	-	-
Total Expenses		169,996.25	3,211,670.31	821,711.04	4,203,377.60

SPRINT PCS

E911 PHASE I & PHASE II

E9-1-1 Phase I Implementation

- Eastern VA
 - deployed CAS. In process of swapping CAS to NCAS
 - CAS originally deployed to meet 12/31/99 deadline with State Police
- Central VA
 - deployed NCAS

E9-1-1 Phase I Implementation

- Northern VA:
 - Have been unable to deploy NCAS from our MSC using SS7 signaling
 - Lucent switch is refusing to populate the GDP with the emergency routing return result
 - Combination of switch reconfiguration and new Lucent software needed to resolve issue.
- Affiliate Markets in VA:
 - Deployment awaiting switch conversions

E9-1-1 Phase I Implementation

- Phase I Implementation Schedule:

- York County VA 03/17/00
- Hampton Police VA 03/22/00
- City of Newport News VA 03/23/00
- Norfolk County, VA VA 03/24/00
- Portsmouth Police VA 03/30/00
- Suffolk County VA 04/06/00
- Henrico County VA 06/29/00
- Chesterfield County VA 06/30/00
- Powhanttan County VA 07/06/00
- City of Richmond VA 07/07/00
- Virginia Beach VA 09/06/00

E9-1-1 Phase I Implementation

- Phase I Implementation Schedule -con't:

• City of Chesapeake	VA	09/08/00	
• City of Danville	VA	03/08/01	
• Arlington County	VA	05/01/01	T
• City of Alexandria	VA	05/01/01	T
• Fairfax County	VA	05/01/01	T
• Loudon County	VA	05/01/01	T
• Prince William County	VA	05/01/01	T
• Piedmont Valley/Spots.	VA	05/01/01	T
• Piedmont Valley/Rockingham/Harrisonburg County	VA	06/01/01	T
• Rockbridge	VA	06/01/01	T
• Pittsylvania	VA	06/01/01	T

E9-1-1 Phase I Implementation

- Phase I Implementation Schedule -con't:

• Piedmont Valley/Fredericksburg	VA	06/01/01 T
• Piedmont Valley-Culpepper County	VA	06/01/01 T
• Piedmont Valley-Louisa County	VA	06/01/01 T
• Piedmont Valley-Warrenton-Fauquier	VA	06/01/01 T
• Hanover County	VA	06/01/01 T
• Isle of Wight County	VA	06/01/01 T
• Piedmont Valley-Frederick County / Winchester	VA	06/01/01 T
• Piedmont Valley-Clarke County	VA	06/01/01 T
• James City County	VA	06/02/01 T
• City of Williamsburg	VA	06/04/01 T
• Salem	VA	06/10/01 T
• Bedford Communications	VA	06/19/01 T

E9-1-1 Phase I Implementation

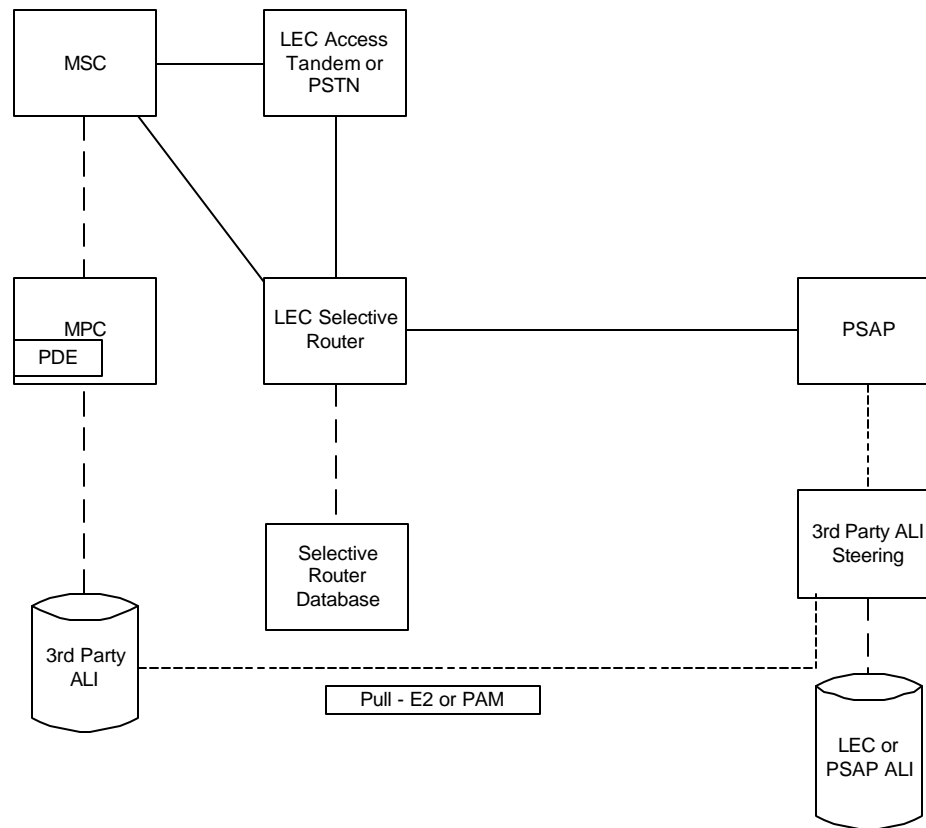
- Phase I Implementation Schedule -con't:

- | | | | |
|--------------------------------------|----|----------|---|
| • Westmoreland County | VA | 07/07/01 | T |
| • Roanoke County | VA | 08/05/01 | T |
| • Christiansburg (Montgomery County) | VA | 09/08/01 | T |
| • Blacksburg (Montgomery County) | VA | 09/08/01 | T |
| • Montgomery County | VA | 09/08/01 | T |
| • City of Roanoke | VA | 01/01/02 | T |

E9-1-1 Phase II

- Handset-Based Location Technology
 - Assisted GPS Handsets
 - All handsets delivered to SPCS starting October 1, 2001 will have AFLT
 - Two handset models with Assisted GPS chips (GPS & AFLT) available October 1, 2001
 - Additional Network Equipment Required
 - Mobile Positioning Center required to process location measurements and pass to PSAP ALI
 - Positioning Determining Equipment needed to take location measurements from handsets & network

E9-1-1 Phase II



E9-1-1 Phase II

- PSAP/LEC Requirements - CAS Phase II:
 - LEC selective router can pass 45 digits
 - SS7 trunks from LEC SR to PSAP
 - PSAP CPE to display latitude & longitude
- PSAP/LEC Requirements - NCAS Phase II:
 - LEC or PSAP ALI database must support pull interface (E2 per standard or PAM-type)
 - Re-bid capability for location updates (both CPE & ALI)
 - PSAP CPE to display latitude & longitude



Virginia Wireless Board

May 9, 2001

Maureen Napolitano

Director

Wireless Implementation-Phase I and II

617 743-0008

maureen.a.napolitano@verizon.com

Virginia Wireless Recap

Deployment Status

- 22 PSAP's Implemented
- 16 PSAP's In Progress
 - Phase I Letter Sent

Virginia Wireless Recap

- Process Improvement
 - Utilizing the 6 Month Window Effectively
- Improved Pricing Turnaround
 - Timeliness/Accuracy
- E9-1-1 Educated Sales Contact
- Establish 4 Key Milestones
 - Pricing Provided to Customer
 - Return Of Approved Contract By Customer
 - Order Process Begins
 - Completion of CPE and PSAP Trunk Installations
 - Issuance of Carrier Trunk Orders
 - Provision, Test and Accept

Virginia Wireless Recap

- Communicate Status
 - Monthly calls to review progress/issues
- SCC Partnership
 - Develop Relationship with Verizon Team
 - Ensure SPOC
 - Facilitate Carrier Issues
 - Monthly Calls to Review National Progress
 - SCC Regional Contact to Manage PSAP Issues
 - » Leon Agnew

Virginia Wireless Recap

- Current Issues

- NCAS Deployment TSI/Cingular
 - Working with TSI and Lucent to capture link failures
 - New TSI Contact
- NCAS Deployment Prince William
 - Final failover/recovery testing week 5/7/01
 - SCC/XYPPoint Ready

Phase II - Location Delivery

- **Passing Latitude / Longitude through telephone network (CAS) requires significant development**
 - **20Digits +++**
 - **Requires Tandem upgrades**
 - **Network Upgrades**
 - **CPE upgrades**
- **Doubtful support for CAS with wireless carriers. Need to upgrade MSC's for 20Digits+++**
- **Verizon will support**
 - **NCAS**
 - **CAS Hybrid**

Phase II NCAS

- Replace PAM Interface for Steering with XML (longer term)**
- Designated Fields for X, Y, Confidence, Speed/ Direction**
- XYPoint, SCC and TSI need to provide consistent placement of data for ALI format until XML is ready**
- Is the NCAS Provider Assigning ESRK based on Cell Site or X/Y**
- PSAP Issues**
 - PSAP Format..it is time to expand**
 - CAD Impacts**
 - Mapping Synchronization**
 - Data Decisions**
 - Is X/Y enough**
 - Phase I Cell Address ?**

Phase II CAS Hybrid

- **Delivery of 20 Digits with Voice Call (ANI)**
 - **Same as Phase I**
- **Selective Routing Done on PANI, not X/Y**
 - **Same as Phase I**
- **Delivery of 20 Digits to ALISA**
 - **Development Required DMS100's, CML**
- **ALISA Queries the Carrier's MPC for X/Y coordinates**
 - **New Interface/Lucent Under Development**
 - **Onsite ALI Databases Issue**
- **ALISA Provides as Part of ALI Response**
 - **Where Does the Data Go**
- **PSAP Issues**
 - **PSAP Format..it is time to expand**
 - **CAD**
 - **Mapping Synchronization**
 - **Data Decisions**

Future Consideration

- **CAS Hybrid**
 - **Selective Routing by X/Y, not Cell Site**
- **Geo Coding for Wireline and Wireless**
 - **Provide X/Y on all ALI Queries**
- **Map Management**
- **XML Interface**
 - **PSAP to ALISA**
- **Repeat BID's...How do we get get updated data**
- **Automatic Collision Notification**